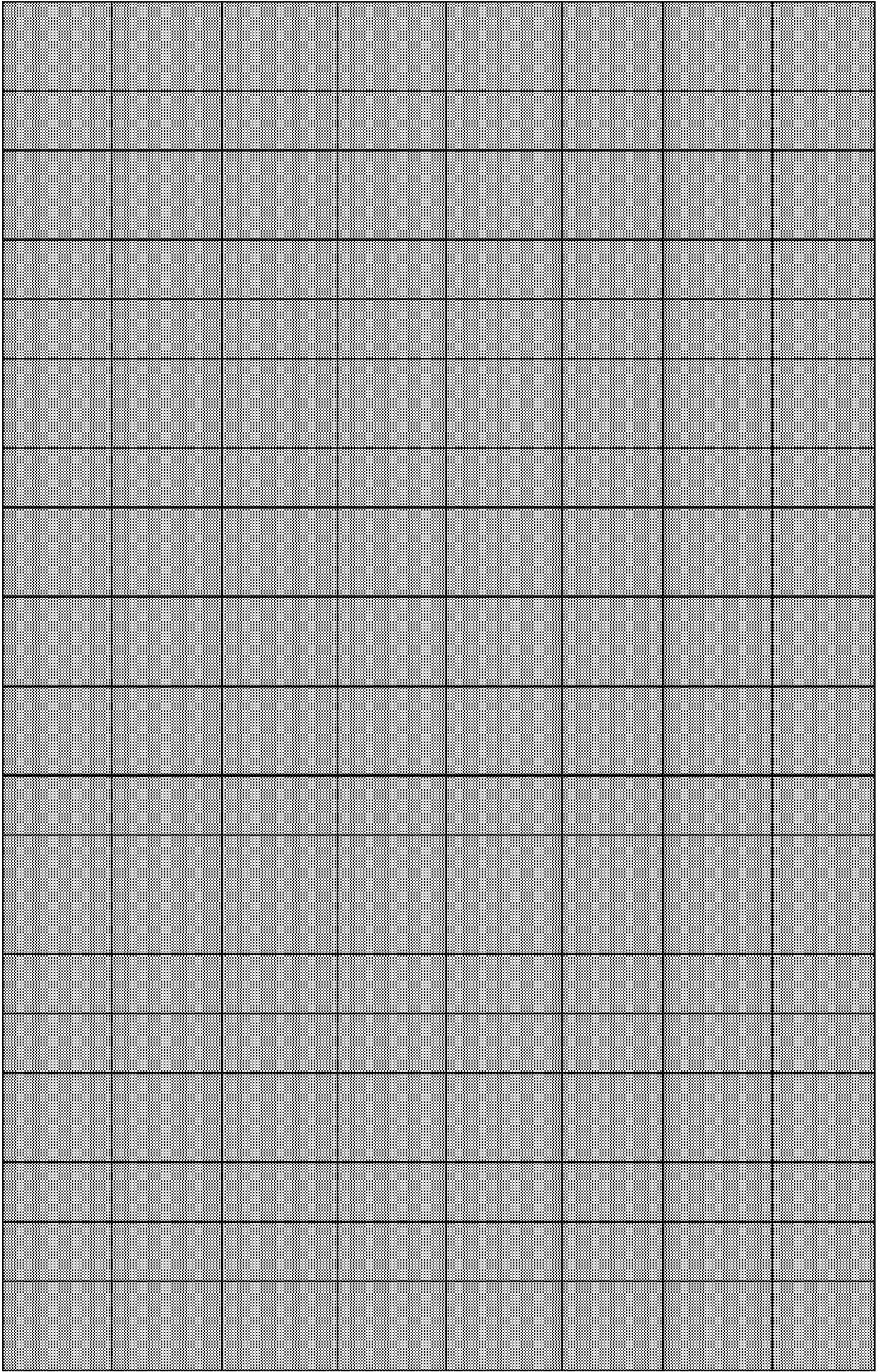


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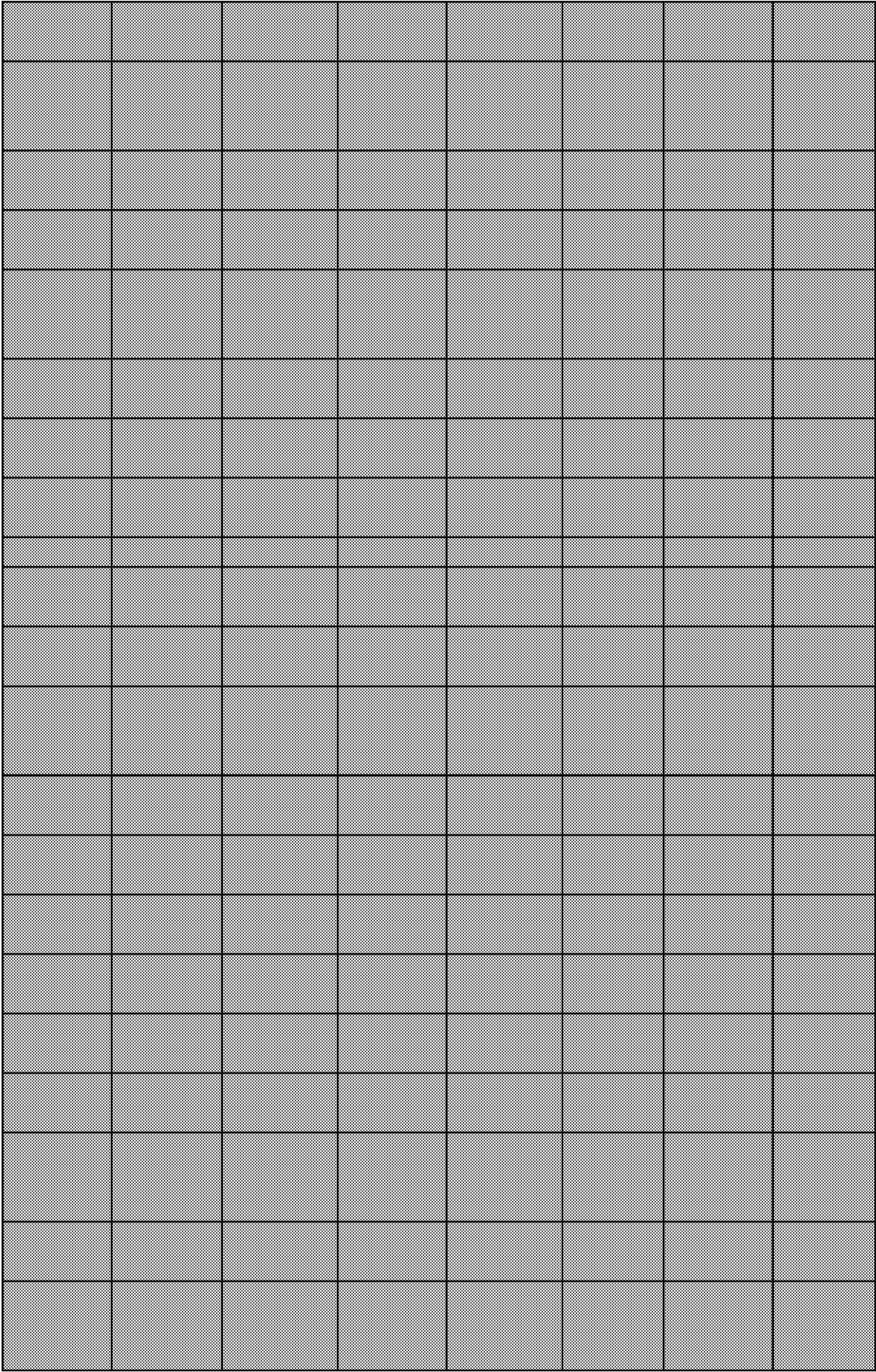
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Paraquat, a herbicide which is known to increase intracellular levels of superoxide anion (O <sub>2</sub> <sup>-</sup> ), stimulated guanylate cyclase activity in rat liver.
In this study we exposed variegated leaves of <i>Pelargonium zonale</i> to strong sunlight (>1100 μmol m <sup>-2</sup> s <sup>-1</sup> of photosynthetically active radiation) for 2 h.
A comparison of the distribution of CO oxidation activity between soluble and particulate protein fractions obtained after extraction of rat liver with 100 mM NaCl and 100 mM NaCl + 10 mM EDTA.
Lysyl oxidase (LOX) is a copper-dependent amine oxidase that plays a critical role in pulmonary fibrosis. Our previous studies have shown that LOX is a major component of the extracellular matrix (ECM) and is involved in the regulation of ECM turnover.
Paraquat is a quaternary nitrogen herbicide triggering oxidative stress, mitochondrial damage and multi-organ injuries in rats.
Paraquat is a broad spectrum herbicide known to be highly lethal to man and animals. Its toxicity is characterized by acute lung injury, liver damage, and renal failure.
Charcoal haemoperfusion will remove many toxins, and appears to be an attractively simple technique for doctors experienced in the use of extracorporeal circuits.
OBJECTIVE: To explore the dose-effect relationship between vitamin C and paraquat (PQ) poisoning rats. Methods: A total of 40 Wistar-Kyoto rats were divided into four groups: control group, PQ group, vitamin C group, and PQ + vitamin C group.
Aging of biological systems is influenced by various factors, conditions and processes. Among others, processes allowing the maintenance of a high level of cellular homeostasis are crucial for the longevity of the organism.
A method for isolating intact chloroplasts from <i>Chlamydomonas reinhardtii</i> F-60 was developed from the Klein, Chen, Gilman and Chisholm (1981) procedure.
Paraquat is a bipyridylium non-selective contact herbicide commonly used worldwide. When ingestion occurs by humans, it causes severe damage to the oral cavity, gastrointestinal tract, and lungs.
The production and fate of superoxide and other free radicals, and the role of superoxide dismutase in the red cell is controlled by a complex system of enzymes and cofactors.
The effects of 2,4-D, glyphosate and paraquat on growth, photosynthesis and chlorophyll-a synthesis by a freshwater green alga, <i>Chlorella vulgaris</i> , were studied.
When the herbicide paraquat (1,1'-dimethyl-4,4'-bipyridylium) was administered to adult rat pulmonary alveolar macrophages, it caused a dose-dependent increase in the release of superoxide anion.
soxR governs a superoxide response regulon that contains the genes for endonuclease IV, Mn <sup>2+</sup> -superoxide dismutase, and other genes involved in DNA repair and antioxidant defense.
soxR and soxS are adjacent genes that govern a superoxide response regulon. Previous studies revealed that induction of soxR and soxS is required for the expression of the genes in the regulon.
Insulin or insulin like signaling (IIS) pathway is a crucial pathway in <i>Caenorhabditis elegans</i> associated with mediating long lifespan.
An inducible O-demethylating enzyme system was characterized from <i>Clostridium thermoaceticum</i> cultivated at the expense of methanol.
The antibacterial effects of tea polyphenol epigallocatechin gallate (EGCG), a common phytochemical with a number of pharmacological activities, were studied.

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Bipolar electrodes (BPE) are electrically floating metallic elements placed in electrified fluids that enable the coupling of
The effects of chlorpromazine hydrochloride (CPZ) on paraquat (PQ) poisoning were examined using male and female be
The effects of carbon tetrachloride (CCl4) and paraquat on the growth of Escherichia coli were investigated. Paraquat at
Electron spin resonance (ESR) studies on spin trapping of superoxide and hydroxyl radicals by 5,5-dimethyl-1-pyrroline-1-
It is well established that paraquat (PQ) poisoning can cause severe lung injury during the early stages of exposure, finally
In patients with subacute toxic reactions from paraquat poisoning (death within 11 to 41 days), the extent of lipid peroxid
The Fenton reaction-based anodic Fenton treatment (AFT) was applied to three widely used organic agrochemicals, carb
The smallest membrane protein shown to catalyze ion-coupled transport is documented in this report. A gene coding for
EmrE, a multidrug transporter from Escherichia coli removes toxic compounds from the cell in exchange with protons. Gl
Both prokaryotic and eukaryotic cells contain an array of membrane transport systems maintaining the cellular homeost
EmrE is an Escherichia coli 12-kDa protein that confers resistance to toxic compounds, by actively removing them in exch
OBJECTIVE: To investigate the characteristics of pesticide poisoning in Jiangsu Province, China, and to provide a scientific
Glyphosate is the world's most widely used herbicide. A potential substitute for glyphosate in some use patterns is the h
Some properties of a hydrogenase from the recently isolated phototrophic sulfur bacterium Lamprobacter modestohalo
We constructed conjugates of superoxide dismutase (SOD) and the Fc fragment of human immunoglobulin G. The lysyl re
ETHNOPHARMACOLOGICAL RELEVANCE: Dictyophora indusiata is a medicinal mushroom traditionally used in China for a
BACKGROUND: Hydrocyanines are widely used as fluorogenic probes to monitor reactive oxygen species (ROS) generatio
The active oxygen species generated by ionizing radiation, hyperoxia, paraquat and hydrogen peroxide induced unsched

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